



Attorney Docket No. US2Goldsborough

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of )

Andrew S. Goldsborough )

Application No.: 10/031,636 )

Filed: April 29, 2002 )

For: ISOLATION OF NUCLEIC ACID )

Examiner: Shar S. Hashemi

Art Unit: 1637

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on July 25, 2003.

Signed: \_\_\_\_\_

*Jacquie M. Vo*  
Jacquie M. Vo

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§1.56 AND 1.97(c)

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

Attny Dkt No. US2Goldsborough

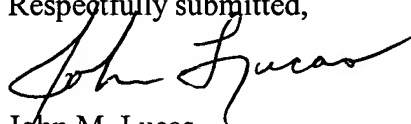
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07/30/2003 MBLANCO 00000007 10031636 180.00 DP  
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This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

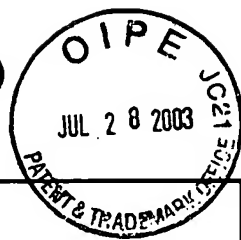
This Information Disclosure Statement is being filed after receipt of the first office action. Accordingly, the required fee of \$180.00 is enclosed. The Commissioner is hereby authorized to charge any deficiencies or overpayments Deposit Account No. 50-2626 (Order No. Goldsborough).

Respectfully submitted,

A handwritten signature in black ink, appearing to read "John Lucas", written over the typed name.

John M. Lucas  
Reg. No. 43,373

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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty Docket No.	US2Goldsborough
	Application No.:	10/031,636
	Inventor	Andrew S. Goldsborough
	Group	1637
	Filing Date	April 29, 2002

**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
	A	5,707,796	1/13/98	Gold et al.			
	B	5,426,180	6/20/95	Kool			
	C	5,872,232	2/16/99	Cook et al.			
	D	5,859,221	1/12/99	Cook et al.			
	E	5,681,726	10/28/97	Huse et al.			

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	F	99/55857	11/4/99	WO				
	G	99/36517	7/22/99	WO				
	H	99/14346	3/25/99	WO				
	I	92/03568	3/5/92	WO				
	J	98/13526	4/2/98	WO				

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	K	Heidenrich, Olaf et al., "Chemically Modified RNA: Approaches and Applications", The FASEB Journal, January 1993, Vol. 7
	L	Heidenrich, Olaf et al., "High Activity and Stability of Hammerhead Ribozymes Containing 2'-Modified Pyrimidine Nucleosides and Phosphorothioates", The Journal of Biological Chemistry, Vol. 269, No. 3, January 21, pp. 2131-2138, 1994.
	M	Aurup, Helle et al., "Translation of 2'-Modified mRNA <i>in vitro</i> and <i>in vivo</i> ", Nucleic Acids Research, 1994, Vol. 22, No. 23. pp.4963-4968.
	N	Xin, Wei et al., "Treatment of Duck Hepatitis B Virus by Antisense Poly-2'-O-(2,4-Dinitrophenyl)-Oligoribonucleotides", Bioenergetics Laboratory, Natural Sciences Center, State University of NY, Buffalo, July 1998
	O	Iribarren, Adolfo M. et al., "2'-O-Alkyl Oligoribonucleotides as Antisense Probes", Proc. Natl. Acad. Sci., Vol. 87, pp 7747-7751, October 1990.

	P	Inoue, Hideo et al, "Synthesis and Hybridization Studies on Two Complementary Nona(2'-O-methyl) Ribonucleotides", Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan, June 1987.
	Q	Scherr, Michaela et al., "Synthesis and Properties of Hammerhead Ribozymes Stabilized Against Nucleases by Different 2'-Modifications: Methoxyethoxy-, Fluoro- and Amino Groups", Bioorganic & Medicinal Chemistry Letters, Vol. 7, No. 13, pp. 1791-1796, 1997
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.